TEJUS
CONSULTANTS

Project	Filling Potholes in in Ward No 07, Byatarayanapura.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. U Ramesh

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

Proposed Use	WMM	**Date of Sampling**	**25-09-19**
Sample Location	**At plant**	**Date of Testing**	**25-09-19**

Sl. No.	**Description**		**Test No.**			**Spec Limit (%)**
			1	**2**	**3**	
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	347.00	356.00	329.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	269.00	275.00	255.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	78.00	81.00	74.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	22.48	22.75	22.49	
5	Average Aggregate impact value	(%)	22.57			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

Consultant's Representative

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

Project	Filling Potholes in in Ward No 07, Byatarayanapura.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. U Ramesh

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

Proposed Use	WMM	**Date of Sampling**	**27-09-19**
Sample Location	**At plant**	**Date of Testing**	**27-09-19**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	377.00	351.00	381.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	295.00	266.00	301.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	82.00	85.00	80.00	
4	Aggregate Impact Value (%)	(Wc/Wa)* 100	21.75	24.22	21.00	
5	Average Aggregate impact value	(%)	22.32			Max - 30 %

Remarks : ✓ Satisfactory / Not Satisfactory

Consultant's Representative

Ashok. N.D
AE (Civil)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS
CONSULTANTS

Project	Filling Potholes in in Ward No 07, Byatarayanapura.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. U Ramesh

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

Proposed Use	WMM	**Date of Sampling**	**22-10-19**
Sample Location	**At plant**	**Date of Testing**	**22-10-19**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	375.00	351.00	381.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	295.00	266.00	301.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	80.00	85.00	80.00	
4	Aggregate Impact Value (%)	(Wc/Wa)* 100	21.33	24.22	21.00	
5	Average Aggregate impact value	(%)	22.18			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

Consultant's Representative

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

Project	Filling Potholes in in Ward No 07, Byatarayanapura.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. U Ramesh

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	WMM		**Proposed Use**	**WMM**
Sample Location	At plant		**Date of Sampling**	**25-09-19**
			Date of Testing	**25-09-19**

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	601	85	516	72
16.0	12.5	1131	122	1009	121
12.5	10.0	773	62	711	63
10.0	6.3	620	49	571	40
Total		**3125**	**318**	**2807**	**296**

Note: Minimum 200 Pcs should be taken on each fraction of test

	Flakiness Index(%):	10.18
	Elongation Index(%):	10.55
	Combined FI+EL (%)	20.72

Consultant's Representative

AE (Tech)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

Project	Filling Potholes in in Ward No 07, Byatarayanapura.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. U Ramesh

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	WMM		**Proposed Use**	**WMM**
Sample Location	At plant		**Date of Sampling**	**27-09-19**
			Date of Testing	**27-09-19**

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	614	80	534	72
16.0	12.5	1125	120	1005	114
12.5	10.0	775	59	716	60
10.0	6.3	610	58	552	45
Total		**3124**	**317**	**2807**	**291**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.15
Elongation Index(%):	10.37
Combined FI+EL (%)	20.51

Consultant's Representative

AE(WZ)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P
Bangalore.

Project	Filling Potholes in in Ward No 07, Byatarayanapura.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. U Ramesh

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	WMM		**Proposed Use**	**WMM**
Sample Location	At plant		**Date of Sampling**	**22-10-19**
			Date of Testing	**22-10-19**

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	621	83	538	77
16.0	12.5	1114	116	998	118
12.5	10.0	775	61	714	51
10.0	6.3	619	57	562	49
Total		**3129**	**317**	**2812**	**295**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.13
Elongation Index(%):	10.49
Combined FI+EL (%)	20.62

Consultant's Representative

AE(W2)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

Name of Work	:	Filling Potholes in in Ward No 07, Byatarayanapura.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS, Basaveshwar Nagar Bangalore
Contractor	:	Sri. U Ramesh
Date of Testing	:	25-09-19
Type of Mix	:	WMM
Sample I/D	:	WMM 1

GRADATION FOR WMM
(As per MORT&H 400-11)

Sample Location:	At plant	Date of Sampling:	25-09-19
		Date of testing:	25-09-19
Type of material & Purpose:	WMM	Oven Dry Wt.(gms):	10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
53	0	0	0.00	100.00	100.00
45	370	370	3.70	96.30	95-100
22.4	1900	2270	22.70	77.30	60-80
11.2	2257	4527	45.27	54.73	40-60
4.75	1990.0	6517	65.17	34.83	25-40
2.36	1410.0	7927	79.27	20.73	15-30
0.6	780.0	8707	87.07	12.93	8.0-22.0
0.075	895.0	9602	96.02	3.98	0-8
Pan	398.0	10000			
Total	10000.0				

Consultant's Representative

AE(Ver)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore

Name of Work	:	Filling Potholes in in Ward No 07, Byatarayanapura.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS, Basaveshwar Nagar Bangalore
Contractor	:	Sri. U Ramesh
Date of Testing	:	27-09-19
Type of Mix	:	WMM
Sample I/D	:	WMM 1

GRADATION FOR WMM
(As per MORT&H 400-11)

Sample Location:	At plant	Date of Sampling:	27-09-19
		Date of testing:	27-09-19
Type of material & Purpose:	WMM	Oven Dry Wt.(gms):	10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
53	0	0	0.00	100.00	100.00
45	350	350	3.50	96.50	95-100
22.4	2560	2910	29.10	70.90	60-80
11.2	2300	5210	52.10	47.90	40-60
4.75	1150.0	6360	63.60	36.40	25-40
2.36	950.0	7310	73.10	26.90	15-30
0.6	900.0	8210	82.10	17.90	8.0-22.0
0.075	1500.0	9710	97.10	2.90	0-8
Pan	290.0	10000			
Total	10000.0				

20000

Consultant's Representative

AE(W)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

Name of Work	:	Filling Potholes in in Ward No 07, Byatarayanapura.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS, Basaveshwar Nagar Bangalore
Contractor	:	Sri. U Ramesh
Date of Testing	:	22-10-19
Type of Mix	:	WMM
Sample I/D	:	WMM 1

GRADATION FOR WMM
(As per MORT&H 400-11)

Sample Location:	At plant	Date of Sampling:	22-10-19
		Date of testing:	22-10-19
Type of material & Purpose:	WMM	Oven Dry Wt.(gms):	10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
53	0	0	0.00	100.00	100.00
45	360	360	3.60	96.40	95-100
22.4	2262	2622	26.22	73.78	60-80
11.2	2487	5109	51.09	48.91	40-60
4.75	1437.0	6546	65.46	34.54	25-40
2.36	812.0	7358	73.58	26.42	15-30
0.6	819.0	8177	81.77	18.23	8.0-22.0
0.075	1050.0	9227	92.27	7.73	0-8
Pan	773.0	10000			
Total	10000.0				

Consultant's Representative

AE(Mat)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P..
Bangalore.

TEJUS
CONSULTANTS

Project	Filling Potholes in in Ward No 07, Byatarayanapura.	
Client	Bruhat Bengaluru Mahanagara Palike	
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	Sri. U Ramesh	
Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)		
	Date:	**30-9-19**
Layer no. or level	WMM I layer	
Depth of hole	250mm	
Field density:	1	2
Wt. of wet material from hole (Ww) gms.	6175	6212
Wt. of sand+cylinder before pouring (w1) gms.	14000	14000
Wt. of sand+cylinder after pouring (w2) gms.	9728	9717
Wt. of sand in cone (w3) gms.	867	857
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	3405	3426
Bulk density of sand (γs)gm/cc	1.31	1.31
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.38	2.38
Moisture meter reading(moisture content)	12.20	12.20
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.12	2.12
MDD	2.14	2.14
OMC	13.50%	13.50%
% compaction obtained	98.94	98.93
% compaction required	98%	98%

AE (WS)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Consultant's Representative

TEJUS
CONSULTANTS

Project	Filling Potholes in in Ward No 07, Byatarayanapura.	
Client	Bruhat Bengaluru Mahanagara Palike	
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	Sri. U Ramesh	
Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)		
	Date:	**3/10/2019**
Layer no. or level	WMM I layer	
Depth of hole	250mm	
Field density:	1	2
Wt. of wet material from hole (Ww) gms.	6201	6197
Wt. of sand+cylinder before pouring (w1) gms.	14000	14000
Wt. of sand+cylinder after pouring (w2) gms.	9717	9749
Wt. of sand in cone (w3) gms.	857	831
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	3426	3420
Bulk density of sand (γs)gm/cc	1.31	1.31
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.37	2.37
Moisture meter reading(moisture content)	12.10	12.10
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.12	2.12
MDD	2.14	2.14
OMC	13.50%	13.50%
% compaction obtained	98.84	98.95
% compaction required	98%	98%

AE(Civil)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Consultant's Representative

TEJUS
CONSULTANTS

Project	Filling Potholes in in Ward No 07, Byatarayanapura.	
Client	Bruhat Bengaluru Mahanagara Palike	
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	Sri. U Ramesh	
Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)		
	Date:	**28-10-19**
Layer no. or level	WMM I layer	
Depth of hole	250mm	
Field density:	1	2
Wt. of wet material from hole (Ww) gms.	6185	6217
Wt. of sand+cylinder before pouring (w1) gms.	14000	14000
Wt. of sand+cylinder after pouring (w2) gms.	9763	9701
Wt. of sand in cone (w3) gms.	820	851
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	3417	3448
Bulk density of sand (γs)gm/cc	1.31	1.31
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.37	2.36
Moisture meter reading(moisture content)	12.20	12.20
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.11	2.11
MDD	2.14	2.14
OMC	13.50%	13.50%
% compaction obtained	98.76	98.37
% compaction required	98%	98%

Consultant's Representative

AE(NL)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Project	Filling Potholes in in Ward No 07, Byatarayanapura.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. U Ramesh

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	BC	**Date of Sampling**	**2/10/2019**
Sample Location	At plant	**Date of Testing**	**2/10/2019**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	388.00	395.00	375.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	297.00	293.00	292.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	91.00	102.00	83.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	23.45	25.82	22.13	
5	Average Aggregate impact value	(%)	23.80			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

Consultant's Representative

AE(NZ)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Project	Filling Potholes in in Ward No 07, Byatarayanapura.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. U Ramesh

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	BC	**Date of Sampling**	**3/10/2019**
Sample Location	At plant	**Date of Testing**	**3/10/2019**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	360.00	361.00	385.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	275.00	271.00	291.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	85.00	90.00	94.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	23.61	24.93	24.42	
5	Average Aggregate impact value	(%)	24.32			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

Consultant's Representative

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS
CONSULTANTS

Project	Filling Potholes in in Ward No 07, Byatarayanapura.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. U Ramesh

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	BC	**Date of Sampling**	**30-10-19**
Sample Location	At plant	**Date of Testing**	**30-10-19**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	350.00	340.00	390.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	270.00	250.00	300.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	80.00	90.00	90.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	22.86	26.47	23.08	
5	Average Aggregate impact value	(%)	24.13			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

Consultant's Representative

AE(Civil) N.D

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS
CONSULTANTS

Project	Filling Potholes in in Ward No 07, Byatarayanapura.Byatarayanapura
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. U Ramesh

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	BC		**Proposed Use**	**BC**
Sample Location	At plant		**Date of Sampling**	2/10/2019
			Date of Testing	2/10/2019

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	965	79	886	68
16.0	12.5	1300	117	1183	121
12.5	10.0	520	70	450	54
10.0	6.3	487	65	422	69
Total		**3272**	**331**	**2941**	**312**

Note: Minimum 200 Pcs should be taken on each fraction of test

		Flakiness Index(%):	10.12		
		Elongation Index(%):	10.61		
		Combined FI+EL (%)	20.72		

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore

AE(Ast)

TEJUS
CONSULTANTS

Project	Filling Potholes in in Ward No 07, Byatarayanapura.Byatarayanapura
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. U Ramesh

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	BC	**Proposed Use**	BC
Sample Location	At plant	**Date of Sampling**	3/10/2019
		Date of Testing	3/10/2019

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63	50	0	0	0	0
50	40	0	0	0	0
40	31.5	0	0	0	0
31.5	25	0	0	0	0
25	20	0	0	0	0
20	16	955	117	838	85
16	12.5	1123	73	1050	120
12.5	10	675	81	594	57
10	6.3	590	66	524	53
Total		3343	337	3006	315

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.08
Elongation Index(%):	10.48
Combined FI+EL (%)	20.56

AE(W21)

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

Project	Filling Potholes in in Ward No 07, Byatarayanapura.Byatarayanapura
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. U Ramesh

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	BC		**Proposed Use**	**BC**
Sample Location	At plant		**Date of Sampling**	30-10-19
			Date of Testing	30-10-19

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	950	85	865	65
16.0	12.5	1310	120	1250	120
12.5	10.0	510	75	440	60
10.0	6.3	495	55	430	65
Total		**3265**	**335**	**2985**	**310**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.26
Elongation Index(%):	10.39
Combined FI+EL (%)	20.65

AE(Civil) - N.D

Assistant Executive Engineer.
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Bangalore.

TEJUS
CONSULTANTS

Name of Work	:	Filling Potholes in in Ward No 07, Byatarayanapura.Byatarayanapura
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri. U Ramesh
Date of Testing	:	2/10/2019
Type of Mix	:	BC
Sample I/D	:	BC1

GRADATION FOR BC
(As per MORT&H 500-18,Grading-2)

Sample Location:	At plant	Date of Sampling:	2/10/2019
		Date of testing:	2/10/2019
Type of material & Purpose:	BC	Oven Dry Wt.(gms):	1200.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	90	90.0	7.50	92.50	79 - 100
9.50	80	170.0	14.17	85.83	71 - 95
4.75	205	375.0	31.25	68.75	53 - 71
2.360	145	520.0	43.33	56.67	42 - 58
1.180	135	655.0	54.58	45.42	34 - 48
0.600	124	779.0	64.92	35.08	26 - 38
0.300	98	877.0	73.08	26.92	18 - 28
0.150	100	977.0	81.42	18.58	12 - 20
0.075	124	1101.0	91.75	8.25	4 - 10
Pan	99.0	1200.0			
Total	1200.0				

AE(W)

Assistant Executive Engineer,
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Bangalore.

Consultant's Representative

TEJUS
CONSULTANTS

Name of Work	:	Filling Potholes in in Ward No 07, Byatarayanapura.Byatarayanapura
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri. U Ramesh
Date of Testing	:	3/10/2019
Type of Mix	:	BC
Sample I/D	:	BC1

GRADATION FOR BC
(As per MORT&H 500-18,Grading-2)

Sample Location:	At plant	Date of Sampling:	3/10/2019
		Date of testing:	3/10/2019
Type of material & Purpose:	BC	Oven Dry Wt.(gms):	1200.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19	0	0	0.00	100.00	100.00
13.20	86	86.0	7.17	92.83	79 - 100
9.50	124	210.0	17.50	82.50	71 - 95
4.75	235	445.0	37.08	62.92	53 - 71
2.360	180	625.0	52.08	47.92	42 - 58
1.180	108	733.0	61.08	38.92	34 - 48
0.600	110	843.0	70.25	29.75	26 - 38
0.300	100	943.0	78.58	21.42	18 - 28
0.150	70	1013.0	84.42	15.58	12 - 20
0.075	110	1123.0	93.58	6.42	4 - 10
Pan	77.0	1200.0			
Total	1200.0				

AE (Ltst)

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Bangalore.

Consultant's Representative

TEJUS
CONSULTANTS

Name of Work	:	Filling Potholes in in Ward No 07, Byatarayanapura.Byatarayanapura
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri. U Ramesh
Date of Testing	:	30-10-19
Type of Mix	:	BC
Sample I/D	:	BC1

GRADATION FOR BC
(As per MORT&H 500-18,Grading-2)

Sample Location:	At plant		Date of Sampling:	30-10-19
			Date of testing:	30-10-19
Type of material & Purpose:	BC		Oven Dry Wt.(gms):	1200.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19	0	0	0.00	100.00	100.00
13.20	98	98.0	8.17	91.83	79 - 100
9.50	117	215.0	17.92	82.08	71 - 95
4.75	233	448.0	37.33	62.67	53 - 71
2.360	187	635.0	52.92	47.08	42 - 58
1.180	99	734.0	61.17	38.83	34 - 48
0.600	111	845.0	70.42	29.58	26 - 38
0.300	93	938.0	78.17	21.83	18 - 28
0.150	100	1038.0	86.50	13.50	12 - 20
0.075	120	1158.0	96.50	3.50	4 - 10
Pan	42.0	1200.0			
Total	1200.0				

AE(Lab)

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Bangalore.

Consultant's Representative

TEJUS
CONSULTANTS

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

Name of Work	:	Filling Potholes in in Ward No 07, Byatarayanapura.Byatarayanapura
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri. U Ramesh
Date of Testing	:	2/10/2019
Type of Mix	:	BC
Sample I/D	:	BC1

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	930	910
2. Weight of Mixture after extraction, g	878	859
3. Weight of Bitumen	52	51
4. Weight of filter paper before extraction, g	2.00	2.15
5. Weight of filter paper after extraction, g	4.10	4.00
6. Weight of fines, g	2.10	1.85
7. Weight of Bitumen & fines	54.10	52.85
8. Bitumen content in %	5.82	5.81
9. Average Bitumen content in %	**5.81**	
10. Minimum Bitumen content in %	**5.80**	

GRADATION FOR BC AFTER EXTRACTION
(As per MORT&H 500-18,Grading-2)

Sample Location:	At site	Date of Sampling:	2/10/2019
		Date of testing:	2/10/2019
Type of material & Purpose:	BC	Oven Dry Wt.(gms):	878.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	89	89.0	10.14	89.86	79 - 100
9.50	130	208.0	23.69	76.31	71 - 95
4.75	91	293.0	33.37	66.63	53 - 71
2.360	138	435.0	49.54	50.46	42 - 58
1.180	122	532.0	60.59	39.41	34 - 48
0.600	75	607.0	69.13	30.87	26 - 38
0.300	61	668.0	76.08	23.92	18 - 28
0.150	55	723.0	82.35	17.65	12 - 20
0.075	95	818.0	93.17	6.83	4 - 10
Pan	60.0	878.0			
Total	878.0				

Consultant's Representative

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Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

Name of Work	:	Filling Potholes in in Ward No 07, Byatarayanapura.Byatarayanapura
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri. U Ramesh
Date of Testing	:	3/10/2019
Type of Mix	:	BC
Sample I/D	:	BC1

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	940	930
2. Weight of Mixture after extraction, g	887	878
3. Weight of Bitumen	53	52
4. Weight of filter paper before extraction, g	2.00	2.00
5. Weight of filter paper after extraction, g	4.10	4.10
6. Weight of fines, g	2.10	2.10
7. Weight of Bitumen & fines	55.10	54.10
8. Bitumen content in %	5.86	5.82
9. Average Bitumen content in %	**5.84**	
10. Minimum Bitumen content in %	**5.80**	

GRADATION FOR BC AFTER EXTRACTION
(As per MORT&H 500-18,Grading-2)

Sample Location:	At site	Date of Sampling:	3/10/2019	
		Date of testing:	3/10/2019	
Type of material & Purpose:	BC	Oven Dry Wt.(gms):	887.0	

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	88	88.0	9.92	90.08	79 - 100
9.50	122	210.0	23.68	76.32	71 - 95
4.75	88	298.0	33.60	66.40	53 - 71
2.360	142	440.0	49.61	50.39	42 - 58
1.180	125	565.0	63.70	36.30	34 - 48
0.600	80	645.0	72.72	27.28	26 - 38
0.300	68	713.0	80.38	19.62	18 - 28
0.150	45	758.0	85.46	14.54	12 - 20
0.075	70	828.0	93.35	6.65	4 - 10
Pan	59	887.0			
Total	887				

Consultant's Representative

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Bangalore.

TEJUS
CONSULTANTS

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX		
Name of Work	:	Filling Potholes in in Ward No 07, Byatarayanapura.Byatarayanapura
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri. U Ramesh
Date of Testing	:	30-10-19
Type of Mix	:	BC
Sample I/D	:	BC1

DETERMINATION OF BITUMEN CONTENT		
Description	**Trail 1**	**Trail 2**
1. Weight of Mixture before extraction, g	930	912
2. Weight of Mixture after extraction, g	878	861
3. Weight of Bitumen	52	51
4. Weight of filter paper before extraction, g	2.00	2.15
5. Weight of filter paper after extraction, g	4.10	4.00
6. Weight of fines, g	2.10	1.85
7. Weight of Bitumen & fines	54.10	52.85
8. Bitumen content in %	5.82	5.79
9. Average Bitumen content in %	**5.81**	
10. Minimum Bitumen content in %	**5.80**	

GRADATION FOR BC AFTER EXTRACTION

(As per MORT&H 500-18,Grading-2)

Sample Location:	At site	Date of Sampling:	30-10-19
		Date of testing:	30-10-19
Type of material & Purpose:	BC	Oven Dry Wt.(gms):	878.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	90	90.0	10.25	89.75	79 - 100
9.50	120	210.0	23.92	76.08	71 - 95
4.75	86	296.0	33.71	66.29	53 - 71
2.360	154	450.0	51.25	48.75	42 - 58
1.180	100	550.0	62.64	37.36	34 - 48
0.600	80	630.0	71.75	28.25	26 - 38
0.300	66	696.0	79.27	20.73	18 - 28
0.150	42	738.0	84.05	15.95	12 - 20
0.075	69	807.0	91.91	8.09	4 - 10
Pan	71.0	878.0			
Total	878.0				

Consultant's Representative

AE(Hqt)

Assistant Executive Engineer,
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Bangalore

Name of Work	:	Filling Potholes in in Ward No 07, Byatarayanapura.Byataray
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri. U Ramesh
Date of Testing	:	2/10/2019
Type of Mix	:	Tack coat
Sample I/D	:	3

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	**Unit**	**Test No**	
		1	**2**
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.820	0.843
Final weight of plate after application of tack Coat (c)	Kg	0.844	0.865
Weight of tack Coat (d=c-b)	Kg	0.024	0.022
Rate of spread of tack coat	Kg/sq.m	0.267	0.244
Average	Kg/sq.m	0.256	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

AE(Ast)

Assistant Executive Engineer,
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Bangalore.

Consultant's Representative

TEJUS
CONSULTANTS

Name of Work	:	Filling Potholes in in Ward No 07, Byatarayanapura.Byatarayar
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri. U Ramesh
Date of Testing	:	3/10/2019
Type of Mix	:	Tack coat
Sample I/D	:	3

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.794	0.782
Final weight of plate after application of tack Coat (c)	Kg	0.819	0.807
Weight of tack Coat (d=c-b)	Kg	0.025	0.025
Rate of spread of tack coat	Kg/sq.m	0.278	0.278
Average	Kg/sq.m	0.278	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

Consultant's Representative

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

Name of Work	:	Filling Potholes in in Ward No 07, Byatarayanapura.Byatarayanapuraa
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri. U Ramesh
Date of Testing	:	30-10-19
Type of Mix	:	Tack coat
Sample I/D	:	3

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.090	0.090
Initial Wt of empty Plate (b)	Kg	0.755	0.748
Final weight of plate after application of tack Coat (c)	Kg	0.778	0.771
Weight of tack Coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.256	0.256
Average	Kg/sq.m	0.256	
Specified Limit	Kg/sq.m	**0.250 to 0.30 Kg/sq.m**	

Consultant's Representative

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Yelahanka Zone, B.B.M.P.,
Bangalore.